

09933334\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned  
 From A Search of 09933334 on October 30, 2002

11 60/300 2 CR, 10 XR

Class 60 : POWER PLANTS

60/271 INTERNAL COMBUSTION ENGINE WITH TREATMENT OR  
 HANDLING OF EXHAUST GAS

60/282 .By means producing a chemical reaction of a  
 component of the exhaust gas

60/299 ..Using a catalyst

60/300 ...Having a means for heating the catalyst

10 422/174 14 CR, 6 XR

Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING

422/129 CHEMICAL REACTOR

422/168 .Waste gas purifier

422/173 ..With heat exchanger for reaction chamber or  
 reactants located therein

422/174 ...Electrical type

10 422/177 11 CR, 9 XR

Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING

422/129 CHEMICAL REACTOR

422/168 .Waste gas purifier

422/177 ..Including solid, extended surface, fluid  
 contact reaction means; e.g., inert Raschig

rings,

particulate absorbent, particulate or monol

ithic catalyst,

etc.

9 422/180 10 CR, 9 XR

Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING

422/129 CHEMICAL REACTOR

422/168 .Waste gas purifier

422/177 ..Including solid, extended surface, fluid  
 contact reaction means; e.g., inert Raschi

g rings,

particulate absorbent, particulate or mono

lithic catalyst,

etc.

422/180 ...Unitary (i.e., nonparticulate contact bed  
 (e.g., monolithic catalyst bed, etc.)

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- 6 55 DIG 31 1 OR, 3 XR  
 Class 55 : GAS SEPARATION  
 55 DIG 31 Exhaust treatment
- 6 422/108 1 OR, 5 XR  
 Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/108 CONTROL ELEMENT RESPONSIVE TO A SENSED  
 OPERATING CONDITION  
 422/108 .Control element responds proportionally to a  
 variable signal from a sensor  
 422/108 ..Controls heat transfer
- 6 422/199 1 OR, 5 XR  
 Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/199 CHEMICAL REACTOR  
 422/199 .Including heat exchanger for reaction chamber  
 or reactants located therein  
 422/199 ..Electrical type
- 4 60/297 1 OR, 3 XR  
 Class 60 : POWER PLANTS  
 60/270 INTERNAL COMBUSTION ENGINE WITH TREATMENT OR  
 HANDLING OF EXHAUST GAS  
 60/282 .By means producing a chemical reaction of a  
 component of the exhaust gas  
 60/297 ..Reactor plus a washer, sorber or mechanical  
 separator
- 4 137/215 1 OR, 3 XR  
 Class 137 : FLUID HANDLING  
 137/215 BACK FLOW PREVENTION BY VACUUM BREAKING (E.G.,  
 ANTI-SIPHON DEVICES)  
 137/216 .Air vent in liquid flow line
- 4 241/46.013 1 OR, 4 XR  
 Class 241 : SOLID MATERIAL COMMINATION OR DISINTEGRATION  
 241/38 .Including means applying fluid to material  
 241/46.01 ..Liquid submerged comminuting zone  
 241/46.013 ...Under-sink garbage disposal
- 4 422/173 1 OR, 2 XR  
 Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/173 CHEMICAL REACTOR

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422 168 .Waste gas purifier  
 422 173 ..With heat exchanger for reaction chamber or  
 reactants located therein

4 431.7 (1 OR, 3 XR)  
 Class 431 : COMBUSTION  
 431.1 PROCESS OF COMBUSTION OR BURNER OPERATION  
 431.7 ..In a porous body or bed, e.g., surface  
 combustion, etc.

3 47629 (1 OR, 2 XR)  
 Class 334 : BATHS, CLOSETS, SINKS, AND SPITTOONS  
 47619 WASH RECEPTACLES  
 47629 ..With garbage receptor or tableware extractor

3 60/284 (1 OR, 3 XR)  
 Class 060 : POWER PLANTS  
 60/272 INTERNAL COMBUSTION ENGINE WITH TREATMENT OR  
 HANDLING OF EXHAUST GAS  
 60/282 .By means producing a chemical reaction of a  
 component of the exhaust gas  
 60/284 ..Automatic or timed reactor purge or heat-up  
 in engine starting operation

3 60/289 (2 OR, 1 XR)  
 Class 060 : POWER PLANTS  
 60/272 INTERNAL COMBUSTION ENGINE WITH TREATMENT OR  
 HANDLING OF EXHAUST GAS  
 60/282 .By means producing a chemical reaction of a  
 component of the exhaust gas  
 60/287 ..Condition responsive control of reactor feed  
 pressure, or by-pass  
 60/289 ...Air feed to reactor modulated or diverted b  
 y  
 control

3 60/289 (1 OR, 1 XR)  
 Class 060 : POWER PLANTS  
 60/272 INTERNAL COMBUSTION ENGINE WITH TREATMENT OR  
 HANDLING OF EXHAUST GAS  
 60/282 .By means producing a chemical reaction of a  
 component of the exhaust gas  
 60/299 ..Using a catalyst

3 60/303 (1 OR, 1 XR)  
 Class 060 : POWER PLANTS

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- 60 271 INTERNAL COMBUSTION ENGINE WITH TREATMENT OF  
HANDLING OF EXHAUST GAS
- 60 281 .By means producing a chemical reaction of a  
component of the exhaust gas
- 60/303 ..Having heater, igniter, or fuel supply for  
reactor
- 3 204 416 (0 OR, 3 XR)  
Class 204 : CHEMISTRY: ELECTRICAL AND WAVE ENERGY  
204/193 APPARATUS  
204/194 .Electrolytic  
204/400 ..Analysis and testing  
204/406 ...With means for temperature or pressure  
compensation
- 3 204 421 (0 OR, 3 XR)  
Class 204 : CHEMISTRY: ELECTRICAL AND WAVE ENERGY  
204/193 APPARATUS  
204/194 .Electrolytic  
204/400 ..Analysis and testing  
204/421 ...Solid electrolyte  
204/424 ....Gas sample sensor  
204/425 .....With impressed current means
- 3 204/426 (0 OR, 3 XR)  
Class 204 : CHEMISTRY: ELECTRICAL AND WAVE ENERGY  
204/193 APPARATUS  
204/194 .Electrolytic  
204/400 ..Analysis and testing  
204/421 ...Solid electrolyte  
204/424 ....Gas sample sensor  
204/426 .....Planar electrode surface
- 3 210/173 (1 OR, 2 XR)  
Class 210 : LIQUID PURIFICATION OR SEPARATION  
210/173 COMMUNITING
- 3 210/232 (2 OR, 1 XR)  
Class 210 : LIQUID PURIFICATION OR SEPARATION  
210/232 WITH REPAIR OR ASSEMBLING MEANS
- 3 210/418 (0 OR, 3 XR)  
Class 210 : LIQUID PURIFICATION OR SEPARATION  
210/346 FILTER  
210/418 .With flow controller for material being  
treated
- 3 210/460 (0 OR, 3 XR)

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Class 21 : LIQUID PURIFICATION OR SEPARATION  
 21/346 FILTER  
 21/459 .Pipe or plate attached type  
 21/460 ..Attached to open end of pipe

3 219/582 (1 OR, 1 XR)

Class 219 : ELECTRIC HEATING  
 219/581 .Resistive element: igniter type  
 219/582 .With heating unit structure  
 219/582 ..Heating element structure

3 241/46.016 (2 OR, 1 XR)

Class 241 : SOLID MATERIAL COMMINUTION OR DISINTEGRATION

241/36 .Including means applying fluid to material  
 241/46.01 ..Liquid submerged comminuting zone  
 241/46.013 ...Under-sink garbage disposal  
 241/46.014 ....Having particular housing structure  
 241/46.016 .....Inlet provision

3 265/125.1 (0 OR, 3 XR)

Class 265 : PIPE JOINTS OR COUPLINGS  
 265/125.1 FOR BRANCHED PATH

3 422/171 (1 OR, 2 XR)

Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/129 CHEMICAL REACTOR  
 422/168 .Waste gas purifier  
 422/169 ..Including means providing sequential  
 purification stages  
 422/170 ...Plural chemical reaction stages  
 422/171 ....Solid, extended surface, fluid contact typ

e

3 422/176 (0 OR, 3 XR)

Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/129 CHEMICAL REACTOR  
 422/168 .Waste gas purifier  
 422/176 ..Including waste gas flow distributor upstrea

m.

of reaction site and within reaction chambe

r modifying

velocity profile of gas

3 422/222 (0 OR, 3 XR)

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Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/212 CHEMICAL REACTOR  
 422/211 .Including solid, extended surface, fluid  
 contact reaction means; e.g., inert Raschig  
 rings,  
 particulate absorbent, particulate or monolith  
 catalyst,  
 etc.  
 422/221 ..Unitary (i.e., nonparticulate) contact bed,  
 e.g., monolithic catalyst bed, etc.

3 429/20 (0 OR, 3 XR)  
 Class 429 : CHEMISTRY: ELECTRICAL CURRENT PRODUCING  
 APPARATUS, PRODUCT, AND PROCESS  
 429/11 FUEL CELL, SUBCOMBINATION THEREOF OR METHODS OF  
 OPERATING  
 429/13 .Having means for active material regeneration  
 regeneration  
 429/20 ..By heating or cooling

3 429/26 (0 OR, 3 XF)  
 Class 429 : CHEMISTRY: ELECTRICAL CURRENT PRODUCING  
 APPARATUS, PRODUCT, AND PROCESS  
 429/12 FUEL CELL, SUBCOMBINATION THEREOF OR METHODS OF  
 OPERATING  
 429/24 .Having heat exchange means

3 435/290.1 (3 OR, 0 XF)  
 Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY  
 435/283.1 APPARATUS  
 435/289.1 .Bioreactor  
 435/290.1 ..Composting apparatus  
 435/290.2 ...Including agitation means

2 4/235 (0 OR, 2 XR)  
 Class 004 : BATHS, CLOSETS, SINKS, AND SPITTOONS  
 4/236 STRAINER, STOPPER, PLUG OR CLOSURE  
 4/235 .Plugs

2 4/640 (0 OR, 2 XR)  
 Class 004 : BATHS, CLOSETS, SINKS, AND SPITTOONS  
 4/619 WASH RECEPTACLES  
 4/639 .Plural receptacles

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4/646

..With drain

- 2 4 DIG 4 (0 OR, 2 NR)  
 Class 004 : BATHS, CLOSETS, SINKS, AND SPITTOONS  
 4 DIG 4 Garbage grinder
- 2 15/104.001 (0 OR, 2 NR)  
 Class 015 : BRUSHING, SCRUBBING, AND GENERAL CLEANING  
 15/104.001 IMPLEMENTS
- 2 15/105 (0 OR, 0 NR)  
 Class 015 : BRUSHING, SCRUBBING, AND GENERAL CLEANING  
 15/104.001 IMPLEMENTS  
 15/105 .Combined
- 2 15/236.01 (0 OR, 2 NR)  
 Class 015 : BRUSHING, SCRUBBING, AND GENERAL CLEANING  
 15/104.001 IMPLEMENTS  
 15/236.01 .Scrapers
- 2 15/245 (0 OR, 2 NR)  
 Class 015 : BRUSHING, SCRUBBING, AND GENERAL CLEANING  
 15/104.001 IMPLEMENTS  
 15/245 .Squeegee
- 2 15/245.1 (0 OR, 2 NR)  
 Class 015 : BRUSHING, SCRUBBING, AND GENERAL CLEANING  
 15/104.001 IMPLEMENTS  
 15/245.1 .Bladed spreader
- 2 34/265 (1 OR, 1 NR)  
 Class 034 : DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS  
 34/265 MATERIAL TREATED BY ELECTROMAGNETIC ENERGY  
 34/269 .Microwave energy  
 34/265 ..Having treating gas or vapor circulation
- 2 34/74 (1 OR, 1 NR)  
 Class 034 : DRYING AND GAS OR VAPOR CONTACT WITH SOLIDS  
 34/74 APPARATUS  
 34/74 .With means to treat gas or vapor  
 34/73 ..By vapor condensation  
 34/74 ...With other gas or vapor treatment
- 2 55/282.3 (2 OR, 0 NR)  
 Class 055 : GAS SEPARATION  
 55/282 WITH NONLIQUID CLEANING MEANS FOR SEPARATING

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## MEDIA

55/262.2 .With heating or cooling means

55 262.3 ..Residue burned

2 55/487 (0 OR, 2 KR)

Class 055 : GAS SEPARATION

55/482 TWO OR MORE SEPARATORS (E.G., SPACED FILTERS I

N

FLOW LINE OR CASING)

55/486 .Plies or layers of different characteristics  
or orientation

55/487 ..Differing mesh sizes

2 55/523 (0 OR, 2 KR)

Class 055 : GAS SEPARATION

55/522 SPECIFIC MEDIA MATERIAL

55 523 .Ceramic or sintered

2 55/534 (0 OR, 2 KR)

Class 055 : GAS SEPARATION

55/522 SPECIFIC MEDIA MATERIAL

55 534 .With coating, impregnant, or bonding agent

2 55/535 (0 OR, 2 KR)

Class 055 : GAS SEPARATION

55/522 SPECIFIC MEDIA MATERIAL

55 535 .Metal mesh or expanded material

2 60/285 (0 OR, 2 KR)

Class 060 : POWER PLANTS

60/272 INTERNAL COMBUSTION ENGINE WITH TREATMENT OR  
HANDLING OF EXHAUST GAS60/282 By means producing a chemical reaction of a  
component of the exhaust gas60/285 ..Engine fuel, air, or ignition controlled by  
sensor of reactor condition

2 60/311 (0 OR, 2 KR)

Class 060 : POWER PLANTS

60/272 INTERNAL COMBUSTION ENGINE WITH TREATMENT OR  
HANDLING OF EXHAUST GAS

60/311 .By sorber or mechanical separator

2 62/341 (0 OR, 2 KR)

Class 062 : REFRIGERATION

62/340 MEANS PRODUCING SHAPED OR MODIFIED CONGEALED  
PRODUCT

62/341 .With article press means



[illegible][illegible]

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1 111 149      1 09, 2 NF
      Class 100 : PRESSURE
100,244      RECIPROCATING PRESS CONSTRUCTION
100,245      ..Box and piston type
100,246      ...Movable or removable box section
100,247      ...Separable box head and box frame
100,248      ....With guided motion

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110/203 CR, 2 XR.  
Class 110 : FURNACES  
110/203 WITH EXHAUST GAS TREATMENT MEANS

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E 110/244      1. OR, 1 NF
      Class 110 : FURNACES
110/245      REFUSE INCINERATOR
110/246      .Refuse suspended in or supported by a fluid
              medium
110/244      ..Suspended in a gaseous medium

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2 110/246 11 OR, 1 XPS  
Class 110 : FURNACES  
110.236 REFUSE INCINERATOR  
110.246 .Rotary drum

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2 110/250      (0 OR 2 X5)
      Class 110 : FURNACES
110/235      REFUSE INCINERATOR
110/255      .With means for advancing or handling refuse o
      residue
110/259      ...Residue handling; e.g., ash, etc.

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2  110/346      (2 CR, 0 XE)
      Class 110 : FURNACES
      110/341   PROCESS
      110/346   .Incinerating refuse

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160/160 : HEAT EXCHANGE  
160/160 : FLOW PASSAGES FOR TWO CONTAINED FLUIDS

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- 165 165 .Interdigitated plural first and plural second  
fluid passages
- 165 165 ..Stacked plates or shells form interplate  
passages
- 2 165/309 (0 OR, 2 XR)  
Class 165 : HEAT EXCHANGE  
165/309 REGENERATION
- 2 165/309 (0 OR, 2 XR)  
Class 165 : MOTOR VEHICLES  
165/34.1 POWER  
165/309 ..With means for handling motor exhaust
- 2 165/65.4 (2 OR, 0 XR)  
Class 165 : MOTOR VEHICLES  
165/34.1 POWER  
165/65.1 .Electric  
165/65.3 ..With means on vehicle for generating power  
for the electric motor  
165/65.4 ...Generating means is driven by a prime mover
- 2 204/424 (1 OR, 1 XR)  
Class 204 : CHEMISTRY: ELECTRICAL AND WAVE ENERGY  
204/193 APPARATUS  
204/194 .Electrolytic  
204/400 ..Analysis and testing  
204/421 ...Solid electrolyte  
204/424 ....Gas sample sensor
- 2 205/731 (2 OR, 0 XR)  
Class 205 : ELECTROLYSIS: PROCESSES, COMPOSITIONS USED  
THEREIN, AND METHODS OF PREPARING THE COMP  
OSITIONS  
205/775 ELECTROLYTIC ANALYSIS OR TESTING (PROCESS AND  
ELECTROLYTE COMPOSITION)  
205/734.5 .For nitrogen or nitrogen containing compound  
205/731 ..Including nitrogen oxide (e.g., gaseous  
nitrogen dioxide, dissolved sodium nitrate,  
etc.)
- 2 205/734.5 (0 OR, 2 XR)  
Class 205 : ELECTROLYSIS: PROCESSES, COMPOSITIONS USED  
THEREIN, AND METHODS OF PREPARING THE COMP  
OSITIONS  
205/775 ELECTROLYTIC ANALYSIS OR TESTING (PROCESS AND

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ELECTROLYTE COMPOSITION

205/781 .For oxygen or oxygen containing compound  
except water

205/781.5 ..Using solid electrolyte

205/784 ...Gaseous oxygen or oxygen containing compound

d

205/784.5 ....In combustible gas e.g., air/fuel mixture  
for internal combustion engine, etc.

2 205/785 (2 OR, 2 XR)

Class 205 : ELECTROLYSIS: PROCESSES, COMPOSITIONS USED  
THEREIN, AND METHODS OF PREPARING THE COMPO-

SITIONS

205/775 ELECTROLYTIC ANALYSIS OR TESTING (PROCESS AND  
ELECTROLYTE COMPOSITION)

205/781 .For oxygen or oxygen containing compound  
(except water)

205/781.5 ..Using solid electrolyte

205/784 ...Gaseous oxygen or oxygen containing compound

e

205/785 ....With heating or temperature sensing

2 210/153 (2 OR, 0 XR)

Class 210 : LIQUID PURIFICATION OR SEPARATION  
210/153 STRUCTURAL INSTALLATION

2 210/310 (0 OR, 2 XR)

Class 210 : LIQUID PURIFICATION OR SEPARATION

210/294 DIVERSE DISTINCT SEPARATORS

210/320 .With baffle perpendicular to flow direction

2 241/35 (2 OR, 0 XR)

Class 241 : SOLID MATERIAL COMMINUTION OR DISINTEGRATION

241/33 .With automatic control

2 241/36 (2 OR, 0 XR)

Class 241 : SOLID MATERIAL COMMINUTION OR DISINTEGRATION

241/33 .With automatic control

241/36 ..Of comminutor drive

2 241/DIG 38 (0 OR, 2 XR)

Class 241 : SOLID MATERIAL COMMINUTION OR DISINTEGRATION

241/DIG 38 Solid waste disposal

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- 2 285/133.21 (1 OR, 2 XR)  
 Class 285 : PIPE JOINTS OR COUPLINGS  
 285/133.1 FOR BRANCHED PATH  
 285/133.11 .T-type  
 285/133.21 ..Having a seal, gasket, O-ring, or packing
- 2 285/179 (1 OR, 2 XR)  
 Class 285 : PIPE JOINTS OR COUPLINGS  
 285/179 ELBOW
- 2 285/180 (1 OR, 2 XR)  
 Class 285 : PIPE JOINTS OR COUPLINGS  
 285/179 ELBOW  
 285/180 .Cooperating saddle clamp
- 2 285/322 (1 OR, 2 XR)  
 Class 285 : PIPE JOINTS OR COUPLINGS  
 285/322 MOVABLE JAW (E.G., CONTRACTIBLE SOCKET)  
 285/323 .Wedge bushing
- 2 285/341 (1 OR, 2 XR)  
 Class 285 : PIPE JOINTS OR COUPLINGS  
 285/335 PACKED  
 285/339 .Wedge  
 285/342 ..Pushed
- 2 422/108 (0 OR, 2 XR)  
 Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/105 CONTROL ELEMENT RESPONSIVE TO A SENSED  
 OPERATING CONDITION  
 422/108 .Control element responds proportionally to a  
 variable signal from a sensor
- 2 422/110 (0 OR, 2 XR)  
 Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/105 CONTROL ELEMENT RESPONSIVE TO A SENSED  
 OPERATING CONDITION  
 422/106 .Control element responds proportionally to a  
 variable signal from a sensor  
 422/110 ..Controls flow rate of a material to or from
- a  
 contact zone
- 2 422/120 (1 OR, 1 XR)  
 Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,

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 DEODORIZING, PRESERVING, OR STERILIZING  
 421 127 FOR DEODORIZING OF, OR CHEMICAL PURIFICATION  
 OF, OR GENERATION OF, LIFE-SUSTAINING ENVIRONMENTAL GAS  
 421 128 ..Including solid, extended surface, fluid  
 contact reaction means e.g., Raschig rings  
 , particulate or  
 nonlithic catalyst, etc.)  
 2 422/129 (0 OR, 2 XR)  
 Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/129 CHEMICAL REACTOR  
 422/166 .Waste gas purifier  
 422/177 ..Including solid, extended surface, fluid  
 contact reaction means; e.g., inert Raschig  
 g rings,  
 particulate absorbent, particulate or mono  
 lithic catalyst,  
 etc.  
 422/178 ...Fixed bed with resilient or differential  
 thermal expansion compensating bed support  
 means  
 2 422/202 (0 OR, 2 XR)  
 Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/129 CHEMICAL REACTOR  
 422/198 ..Including heat exchanger for reaction chamber  
 or reactants located therein  
 422/202 ..Heat-exchange jacket surrounding reaction  
 chamber  
 2 422/203 (0 OR, 2 XR)  
 Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/129 CHEMICAL REACTOR  
 422/198 ..Including heat exchanger for reaction chamber  
 or reactants located therein  
 422/202 ..Heat-exchange jacket surrounding reaction  
 chamber  
 422/203 ...Including fluid-transfer means connecting  
 chamber to heat-exchange jacket  
 2 422/204 (0 OR, 2 XR)  
 Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
 DEODORIZING, PRESERVING, OR STERILIZING  
 422/129 CHEMICAL REACTOR

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- 422/135 .Including heat exchanger for reaction chamber  
or reactants located therein
- 422/141 ..Heat-exchange jacket surrounding reaction  
chamber
- 422/144 ...Means associated with jacket providing  
combustion gas as heat-exchange medium
- 2 422/211 (0 OR, 2 KR)  
Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
DEODORIZING, PRESERVING, OR STERILIZING  
CHEMICAL REACTOR
- 422/129 .Including solid, extended surface, fluid  
contact reaction means; e.g., inert Raschig  
rings,  
particulate absorbent, particulate or monol  
ithic catalyst,  
etc.
- 2 422/4 (1 OR, 1 KR)  
Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
DEODORIZING, PRESERVING, OR STERILIZING  
PROCESS DISINFECTING, PRESERVING, DEODORIZING,  
OR STERILIZING
- 422/4 .A gas is substance acted upon
- 2 422/5 (0 OR, 2 KR)  
Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,  
DEODORIZING, PRESERVING, OR STERILIZING  
PROCESS DISINFECTING, PRESERVING, DEODORIZING,  
OR STERILIZING
- 422/5 .Deodorizing
- 2 423/247 (1 OR, 1 KR)  
Class 423 : CHEMISTRY OF INORGANIC COMPOUNDS  
MODIFYING OR REMOVING COMPONENT OF NORMALLY  
GASEOUS MIXTURE
- 423/246 .Carbon monoxide component
- 423/247 ..Utilizing solid sorbent, catalyst, or  
reactant
- 2 426/116 (2 OR, 0 KR)  
Class 426 : STOCK MATERIAL OR MISCELLANEOUS ARTICLES  
STRUCTURALLY DEFINED WEB OR SHEET (E.G.,  
OVERALL DIMENSION, ETC.)
- 426/98 .Honeycomb-like
- 2 429/17 (1 OR, 0 KR)  
Class 429 : CHEMISTRY: ELECTRICAL CURRENT PRODUCING

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 APPARATUS, PRODUCT, AND PROCESS  
 429/11 FUEL CELL, SUBCOMBINATION THEREOF OR METHODS OF  
 OPERATING  
 429/12 .Process of operating  
 429/17 ..Generating, regenerating or recycling  
 reactant

2 431/326 10 OR, 0 XR  
 Class 431 : COMBUSTION  
 431/326 POROUS, CAPILLARY, PARTICULATE OR SIEVELIKE  
 FLAME HOLDER, E.G., RADIANT SURFACE BURNER,  
 ETC.

2 431/328 11 OR, 1 XR  
 Class 431 : COMBUSTION  
 431/326 POROUS, CAPILLARY, PARTICULATE OR SIEVELIKE  
 FLAME HOLDER, E.G., RADIANT SURFACE BURNER  
 , ETC.  
 431/327 .Means supplying fuel for passage through the  
 flame holding structure, e.g., radiant sur-  
 face burner

2 431/5 10 OR, 2 XR  
 Class 431 : COMBUSTION  
 431/2 PROCESS OF COMBUSTION OR BURNER OPERATION  
 431/5 .Burning waste gas, e.g., furnace gas, etc.

2 435/290.4 10 OR, 2 XR  
 Class 435 : CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY  
 435/283.1 APPARATUS  
 435/289.1 .Bioreactor  
 435/290.1 ..Composting apparatus  
 435/290.4 ...Including solid or liquid transport means  
 into or out of a composter

2 502/527.19 10 OR, 2 XR  
 Class 502 : CATALYST, SOLID SORBENT, OR SUPPORT THEREFOR:  
 PRODUCT OR PROCESS OF MAKING  
 502/527.19 MONOLITH WITH SPECIFIED SHAPE OR DIMENSION OF  
 CELL OPENING (E.G., HONEYCOMB, RINGS, ETC.)